

# **CITY OF SUNNYVALE**

## **PUBLIC WORKS DEPARTMENT/ENGINEERING DIVISION**

### **GENERAL NOTES**

1. OBTAIN AN ENCROACHMENT PERMIT FROM PUBLIC WORKS FOR ALL OFF-SITE IMPROVEMENTS SHOWN ON THIS PLAN.
2. NOTIFY CITY OF SUNNYVALE INSPECTION AT (408) 730-7605 A MINIMUM OF 24 HOURS IN ADVANCE OF STARTING WORK.
3. ALL MATERIALS AND WORKMANSHIP SHALL FULLY CONFORM TO THE LATEST SPECIFICATIONS, DETAILS, STANDARDS AND ORDINANCES OF THE CITY OF SUNNYVALE. TRAFFIC CONTROL SHALL BE PER CITY-APPROVED TRAFFIC CONTROL PLAN AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
4. ALL ELEVATIONS SHOWN ARE ON CITY OF SUNNYVALE DATUM.
5. APPROVAL OF THESE PLANS DOES NOT RELIEVE THE CONTRACTOR/OWNER OF THE RESPONSIBILITY FOR THE CORRECTION OF MISTAKES, ERRORS OR OMISSIONS.
6. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800)227-2600 AT LEAST 48 HOURS PRIOR TO STARTING WORK.
7. SHORT TERM AND/OR LONG TERM TRAFFIC CONTROL PLANS ARE REQUIRED TO BE SUBMITTED AND APPROVED BY THE DIVISION OF TRANSPORTATION AND TRAFFIC PRIOR TO THE START OF ANY WORK IMPACTING THE PUBLIC RIGHT-OF-WAY. TRAFFIC CONTROL PLANS WILL BE SUBMITTED AT THE SAME TIME AS THE ENCROACHMENT PERMIT APPLICATION. TRAFFIC CONTROL PLANS MUST BE PREPARED AND STAMPED BY PERSON TRAINED/CERTIFIED TO PREPARE TRAFFIC CONTROL PLANS (IN ACCORDANCE WITH THE LATEST CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES).
8. ALL STANDARD STREET MONUMENTS, LOT CORNER PIPES, AND OTHER PERMANENT MONUMENTS DISTURBED DURING THE PROCESS OF CONSTRUCTION SHALL BE REPLACED AND A RECORD OF SURVEY OR CORNER RECORD PER SECTION 8771 OF THE PROFESSIONAL LAND SURVEYOR'S ACT FILED BEFORE ACCEPTANCE OF THE IMPROVEMENTS BY THE CITY. COPIES OF ANY RECORD OF SURVEY OR CORNER RECORDS SHALL BE SUBMITTED TO THE CITY.
9. CONTRACTOR SHALL KEEP UP-TO-DATE A COMPLETE RECORD SET OF PRINTS OF THE CONTRACT DRAWINGS SHOWING EVERY CHANGE FROM THE ORIGINAL DRAWINGS MADE DURING THE COURSE OF CONSTRUCTION INCLUDING EXACT LOCATION, SIZES, MATERIALS AND EQUIPMENT. A COMPLETE SET OF CORRECTED AND COMPLETED RECORD DRAWING PRINTS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE FOR REVIEW AND APPROVAL BY THE ENGINEER.

10. CONTRACTOR SHALL COORDINATE UTILITY INFORMATION SHOWN ON THE PLANS WITH INSTALLATION OF PG&E, CABLE, TELEPHONE AND/OR JOINT TRENCH LAYOUT AND DETAILS.
11. STREET TREES SHOWN ON PLANS ARE CONCEPTUAL ONLY. CONTACT THE FIELD SERVICES DIVISION AT (408) 730-7505 FOR ACTUAL STREET TREE LOCATION.
12. CONSTRUCTION OF WATER SERVICES SHALL BE PER SECTION 306 OF THE CITY OF SUNNYVALE STANDARD SPECIFICATIONS. ALL WET (LIVE) TAPS 12" AND SMALLER SHALL BE PERFORMED BY THE CITY AND REQUIRE A MINIMUM 48 HOURS ADVANCE NOTIFICATION. ALL EXISTING VALVE OPERATIONS SHALL ONLY BE OPERATED BY THE CITY. CONTACT PUBLIC WORKS/FIELD SERVICES AT (408) 730-7510.
13. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING THE SERVICE SADDLE OR TAPPING SLEEVE AND TAPPING GATE VALVE. A LIST OF WATER VALVES AND APPURTENANCES CAN BE FOUND IN THE CITY STANDARD SPECIFICATIONS, SECTION 208-7. WATER MAIN DUCTILE IRON PIPE APPURTENANCES CAN BE FOUND IN SECTION 207-9.2.1.2 OF THE CITY SPECIFICATIONS.
14. THE LOCATION OF ALL VALVES IN THE STREET SHALL BE MARKED ON THE NEAREST CURB WITH AN INCISED ARROW POINTING TO GATE VALVE ON THE TOP OF THE CURB AND THE DISTANCE IN FEET MARKED WITH INCISED ROMAN NUMERALS ON THE FACE OF THE CURB, ALL IN 2" HIGH CHARACTERS.
15. THE METER AND METER BOX SHALL BE FURNISHED AND INSTALLED BY THE CITY UPON ACCEPTANCE OF THE LATERAL SERVICE LINE, AND THE PROPERTY OWNER HAS ASSUMED RESPONSIBILITY FOR THE CONNECTION ON THE DISCHARGE SIDE OF THE METER. A BACKFLOW PREVENTION DEVICE IS REQUIRED ON THE DISCHARGE SIDE OF THE IRRIGATION, DOMESTIC (NON-RESIDENTIAL), AND FIRE SERVICE LINES. A BACKFLOW PREVENTION ENCLOSURE IS REQUIRED FOR ALL SERVICES FROM ¾" TO 2". NO METER SHALL BE INSTALLED PRIOR TO FULL COMPLIANCE WITH THE CROSS-CONNECTION CONTROL PROGRAM.
16. NEW WATER PIPELINES, VALVES, AND FITTINGS SHALL BE STERILIZED, TESTED BY THE CONTRACTOR, AND SHALL PASS BACTERIA AND OTHER WATER QUALITY REQUIREMENTS BEFORE PUT INTO SERVICES. CONTRACTOR SHALL SUPPLY ALL MATERIALS, LABOR AND EQUIPMENT REQUIRED TO DISINFECT THE PIPELINES AND APPURTENANCE. WATER MAIN DISINFECTING AND FLUSHING SHALL BE PER SECTION 306-1.4.7 OF THE CITY SPECIFICATIONS, AND SHALL BE WITNESSED BY THE CITY INSPECTOR.
17. WATER PRESSURE TEST SHALL BE PERFORMED PER SECTION 306 OF THE CITY SPECIFICATIONS.
18. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY AFFECTED RESIDENTS AND BUSINESSES 48 HOURS PRIOR TO THE START OF A WATER MAIN SHUTDOWN. THE WATER MAIN SHUTDOWN WILL BE COMPLETED BY CITY

CREWS ONLY.

19. WET UTILITIES (SANITARY, STORM, WATER) PIPE MATERIALS AND APPURTENANCES SHALL BE PER SECTION 207 OF THE CITY OF SUNNYVALE STANDARD SPECIFICATIONS. ALL WATER MAINS NORTH OF THE RAILROAD TRACK SHALL BE AWWA C-900 CLASS 200 PVC.
20. CONTRACTOR SHALL VERIFY ALL EXISTING INVERT ELEVATIONS FOR STORM DRAIN AND SANITARY SEWER CONSTRUCTION PRIOR TO COMMENCEMENT OF ANY WORK. ALL WORK FOR STORM AND SANITARY SEWER INSTALLATION SHALL BEGIN AT THE DOWNSTREAM CONNECTION POINT. THIS WILL ALLOW FOR ANY NECESSARY ADJUSTMENTS TO BE MADE PRIOR TO THE INSTALLATION OF THE ENTIRE LINE. IF THE CONTRACTOR FAILS TO BEGIN AT THE DOWNSTREAM CONNECTION POINT AND WORKS UP STREAM, CONTRACTOR SHALL PROCEED AT CONTRACTOR'S OWN RISK AND BE RESPONSIBLE FOR ANY ADJUSTMENTS NECESSARY. CONTRACTOR SHALL VERIFY LOCATION OF SANITARY SEWER LATERAL WITH OWNER PRIOR TO CONSTRUCTION.
21. IT IS THE CONTRACTOR'S RESPONSIBILITY TO POTHOLE AND/OR UNCOVER AND EXPOSE EXISTING UTILITIES AT CROSSING LOCATIONS. CONTRACTOR TO PROTECT ALL EXISTING UTILITIES AND SERVICE LATERALS FROM DAMAGE DUE TO CONTRACTOR'S OPERATIONS. ANY AND ALL UTILITY SERVICE LATERALS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO THE SATISFACTION OF THE CITY ENGINEER.
22. CONTRACTOR TO MAINTAIN MINIMUM 12 INCH VERTICAL AND 4 FEET HORIZONTAL CLEARANCE TO OTHER EXISTING UTILITIES. FIVE FEET HORIZONTAL CLEARANCE MUST BE MAINTAINED WHEN WORKING NEAR NATURAL GAS. WHERE 12 INCH VERTICAL MINIMUM CLEARANCES CANNOT BE MAINTAINED, USE THE FOLLOWING:  
  
NEW PIPELINE CROSSING BELOW EXISTING WATER OR ABOVE EXISTING SANITARY SEWER: NEW PIPELINE JOINTS TO BE MINIMUM 5 FEET FROM CENTERLINE OF EXISTING PIPE AND THE TWO JOINTS ON EITHER SIDE OF EXISTING PIPELINE TO BE RESTRAINED.  
  
NEW PIPELINE CROSSING ABOVE EXISTING WATER OR BELOW EXISTING SANITARY SEWER: NEW PIPELINE JOINTS TO BE MINIMUM 9 FEET FROM CENTERLINE OF EXISTING PIPE AND THE TWO JOINTS ON EITHER SIDE OF EXISTING PIPELINE TO BE RESTRAINED. ENCASEMENT MAY BE REQUIRED AS DIRECTED AND APPROVED BY THE CITY ENGINEER.
23. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES WITH THE APPROPRIATE AGENCIES.
24. THE EXISTING UTILITIES CROSSING THE NEW PIPELINE ARE SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE TYPE, SIZE, LOCATION AND DEPTH OF ALL THE UTILITY CROSSINGS (BOTH MAINS AND LATERALS) ARE CORRECT AS SHOWN. NO GUARANTEE IS MADE THAT ALL EXISTING UTILITIES (BOTH MAINS AND

LATERALS) ARE SHOWN.

25. ALL EXISTING UTILITY VAULTS AND/OR PULL BOXES THAT ARE LOOSE AND/OR BROKEN SHALL BE RE-SECURED AND/OR REPLACED TO THE CITY'S SATISFACTION. ALL EXISTING AND NEW UTILITY STRUCTURES TO BE ADJUSTED TO FINISH GRADE.
26. PROVIDE ACCESS AT ALL TIMES TO ALL ABUTTING PROPERTIES, EXCEPT AS APPROVED BY THE INSPECTOR. 48 HOURS WRITTEN NOTICE MUST BE GIVEN TO THE AFFECTED PROPERTY OWNER(S) WHEN ACCESS IS AFFECTED. TRENCHES SHALL BE BACKFILLED AND PAVED (TEMPORARY CUTBACK ASPHALT) PRIOR TO LEAVING THE JOB SITE EACH WORKDAY. THE INSPECTOR MAY APPROVE STEEL PLATING AT HIS DISCRETION.
27. ALL TRENCHES SHALL BE BACKFILLED AT THE END OF EACH WORKDAY. NO TRENCH SHALL BE LEFT OPEN DURING NON-WORKING HOURS. STEEL PLATES SHALL NOT BE USED TO COVER TRENCHES WITHOUT THE APPROVAL OF THE INSPECTOR. PROPERLY BARRICADED, FENCED AND LIGHTED CASING PIPE BORE PITS MAY BE LEFT OPEN DURING NON-WORKING HOURS WHILE CASING PIPES ARE BEING INSTALLED.
28. TYPICAL TRENCH BACKFILL SHALL BE PER APPLICABLE CITY STANDARD NUMBERS 16A-1, 16A-2, 16A-3, 16A-4, 16A-5, AND 16A-6. FOR CLSM USED AS TRENCH PIPE BEDDING AND TRENCH BACKFILL, THE CEMENT QUANTITY SHALL BE 47 POUNDS PER CUBIC YARD. THE 28-DAY COMPRESSIVE STRENGTH SHALL BE A MINIMUM OF 100 PSI AND A MAXIMUM OF 200 PSI.
29. ASPHALT CONCRETE SHALL CONFORM TO SECTION 203 OF THE CITY STANDARD DETAILS. ASPHALT CONCRETE SHALL NOT BE PLACED WHEN THE ATMOSPHERIC TEMPERATURE IS BELOW 10°C (50°F) AND FALLING OR DURING UNSUITABLE WEATHER.
30. GRADE BREAKS ON CURBS AND SIDEWALKS TO BE ROUNDED OFF (WHILE CONCRETE FINISHING WORK IS IN PROGRESS) IN FORM WORK AND FINISHED SURFACING.
31. REPLACE EXISTING CURB MARKINGS AND PAINT AFTER INSTALLATION OF NEW CURB AND GUTTER.
32. CONTRACTOR SHALL REPLACE EXISTING TRAFFIC STRIPING/LEGENDS AND DETECTOR LOOPS THAT ARE DISTURBED BY CONSTRUCTION OPERATIONS TO THE CITY'S SATISFACTION. ALL PAVEMENT MARKINGS ARE TO BE THERMOPLASTIC MATERIAL.
33. CONTRACTOR IS REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
34. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND REPAIRS TO THE SERVICE TRENCH AND PAVEMENT FOR A ONE-YEAR WARRANTY PERIOD

AFTER ACCEPTANCE OF THE WORK BY THE CITY. ONE YEAR AFTER ACCEPTANCE, THE CITY WILL MAKE A FINAL INSPECTION. IF REPAIRS HAVE TO BE MADE, THE CONTRACTOR OR DEVELOPER WILL BE NOTIFIED TO MAKE REPAIRS.

35. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE STATE OF CALIFORNIA BEST MANAGEMENT PRACTICES HANDBOOK FOR APPLICABLE CONTROL MEASURES AND EMPLOY ITS PROVISIONS THROUGHOUT ALL CONSTRUCTION.
36. CONTRACTOR SHALL STENCIL NEW ALL CATCH BASINS AS SHOWN ON THE CITY APPROVED PLANS WITH THE NON-POINT-SOURCE"NO DUMPING" MESSAGE. THE STENCIL IS AVAILABLE FROM THE CITY'S ENVIRONMENTAL DIVISION (408) 730-7260.
37. ALL CONSTRUCTION MATERIALS, EQUIPMENT, STORAGE, STOCKPILING, AND STAGING MUST BE DONE ON-SITE AND THE PUBLIC RIGHT-OF-WAY/STREET MUST BE KEPT CLEAR AND FREE OF DEBRIS.
38. ALL UNDERGROUND SERVICE ALERT (USA) MARKINGS ON CONCRETE AND ASPHALTIC PAVEMENT OR OTHER STRUCTURES SHALL BE REMOVED WHEN THEY ARE NO LONGER REQUIRED. ACCEPTABLE MEANS OF REMOVAL INCLUDE SAND BLASTING OR HIGH PRESSURE WATER BLASTING.

#### STREETLIGHTING NOTES

1. A LIST OF THE MATERIALS PROPOSED BY THE CONTRACTOR TO BE USED ON THIS PROJECT FOR STREET LIGHTING INCLUDING, BUT NOT LIMITED TO, LUMINAIRES, POLES, CONDUIT, CONDUCTORS, PULL BOXES AND SERVICE EQUIPMENT SHALL BE SUBMITTED TO THE CITY'S TRAFFIC AND TRANSPORTATION DIVISION FOR REVIEW PRIOR TO THE START OF WORK. THE LIST SHALL INCLUDE THE MANUFACTURER'S SPECIFICATIONS FOR ALL APPLICABLE PRODUCTS.
2. SERVICES:
  - a. INSTALL A 240V SERVICE NEXT TO EACH PG&E SECONDARY BOX USED FOR STREETLIGHT SERVICE, UNLESS SPECIFIED OTHERWISE.
  - b. ALL ELECTRIC SERVICE POINTS SHOWN ON THESE PLANS WERE DETERMINED BY PG&E AND ARE TENTATIVE AND SHOWN FOR REFERENCE ONLY. THE ACTUAL SERVICE POINT(S) MUST BE CONFIRMED WITH PG&E PRIOR TO CONSTRUCTION OF ELECTRICAL WORK. ALL ADDITIONAL COSTS INCURRED FOR WORK MODIFICATIONS REQUIRED DUE TO FINAL SERVICE POINT LOCATIONS/ADJUSTMENT SHALL BE BORNE BY THE PERMITTEE. IF THE FINAL SERVICE POINT LOCATION(S) DIFFER FROM THE TENTATIVE SERVICE POINT LOCATION(S) AS SHOWN ON THE PLANS, THE PERMITTEE SHALL REVISE THE PLANS AND NOTIFY THE PUBLIC WORKS INSPECTOR OF ANY CHANGES AND SHALL OBTAIN CITY APPROVAL OF CHANGES PRIOR TO INSTALLATION OF ELECTRICAL WORK.
3. ALL EQUIPMENT TO BE SALVAGED SHALL BE DELIVERED TO THE CITY OF SUNNYVALE CORPORATION YARD AT 221 COMMERCIAL STREET.
4. PERMITTEE IS RESPONSIBLE FOR PROVIDING CLEARANCE FOR ELECTROLIERS AND TRAFFIC SIGNAL STANDARDS FROM OVER HEAD UTILITY LINES. CLEARANCE MUST BE A MINIMUM OF 10 FEET FROM HIGH VOLTAGE LINES, 3

- FEET FROM SECONDARY LINES, AND 1 FOOT FROM COMMUNICATION LINES.  
NO ELECTROLIER OR TRAFFIC SIGNAL STANDARD SHALL BE INSTALLED UNTIL  
PROPER CLERAANCE IS OBTAINED. ALL EXPENSES ASSOCIATED WITH  
PROVIDING THESE CLEARANCES MUST BE BORNE BY THE DEVELOPER.
5. ALL ELECTROLIER LOCATIONS SHALL BE STAKED IN THE FIELD BY THE  
PERMITTEE.
  6. ALL NEW ELECTROLIERS SHALL BE CITY OF SUNNYVALE STANDARD PER CITY  
STANDARD SPECIFICATIONS (SECTION 209) AND DETAILS (NUMBERS 1D  
THROUGH 5D).
  7. ALL NEW PULL BOXES SHALL BE #3-1/2 UNLESS NOTED OTHERWISE.
  8. A CONTINUOUS #8 AWG GROUNDING CONDUCTOR SHALL BE INSTALLED FOR  
EACH NEW LUMINAIRE ON NEW OR RE-WIRED ELECTROLIERS. THE  
GROUNDING CONDUCTOR SHALL BE TERMINATED IN THE LUMINAIRE HOUSING  
AND CONNECTED TO THE GROUNDING WIRE IN BASE OF THE POLE.
  9. ANY EXISTING "SAN JOSE OCTOFLUTES" (METAL POLES) SHALL BE REPLACED  
WITH CITY OF SUNNYVALE STANDARD MARBELITE POLES.